SH2313 Medical 3D-imaging, Supplementary Course 2 3.0 credits

Medicinsk 3D-avbildning, fortsättningskurs 2

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for SH2313 valid from Autumn 2008

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Physics

Specific prerequisites

Recommended prerequisites: SH2310 Radiation detectors and medical imaging systems.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

To-days medical imaging as applied in hospital clinics mostly presents the human anatomy and physiology in 3 dimensions. The course offers the students a project-work for in depth study of 3D imaging using for some of the modalities presented in the basic course SH2310. Courses SH2312 and SH2313 are each one of these project works.

Course contents

The projects offered are one of the following

- 3D imaging of one of the Barbie dolls using KTH-CT with MatLab or similar software
- 3D imaging with KTH PET-system

Course literature

To be handed out.

Examination

- PRO1 - Project, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Seminar (SEM1;3 university credits).

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.